

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Granada, Scorpio 2.4 & CAT

1987 to 1993

Type		ARC (OHV) 96kW 15.04 ¹
Capacity (cm ³) / number of cylinders		2394 / 6
Compression ratio / pressure	bar	9.5 / 12.4 to 14.1
Oil pressure	bar	0.98 [2.45]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.35
Valve clearance - exhaust	mm	0.40
Firing order		1-4-2-5-3-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	79 to 83
Radiator cap pressure	bar	0.85 to 1.1

Fuel system

Granada, Scorpio 2.4 & CAT

1987 to 1993

Idle speed - manual [auto]	rpm	800±50 [850±50] ²
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.8±0.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		L-Jetronic (Ford EEC IV)
Main jet / needle		—
Injection pressure	bar	2.7. Later: 3.0
Pump pressure	bar	≥5.0
Octane rating	RON	97[RA] ³

Ignition system

Granada, Scorpio 2.4 & CAT

1987 to 1993

Type		EEC IV
Ignition coil		Bosch, Femsa, Polmot 25kV
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Motorcraft
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12 BTDC @ ≤900 ³
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Motorcraft/Champion
Type		AGPR32C / RC7YC
Electrode gap	mm	0.75

Electrical system

Granada, Scorpio 2.4 & CAT

1987 to 1993

Battery	V / CC / RC	12 / 270 / 50, 12 / 360 / 60
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 55,70,90 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Granada, Scorpio 2.4 & CAT

1987 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	185/70x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±1.0
Camber		-23'±1°. HD: 0±1°
Castor		+1°51'±1° . HD: +1°46'±1° ⁴
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings

Granada, Scorpio 2.4 & CAT

1987 to 1993

Cylinder head - stage 1	Nm	35 to 40
- stage 2	Nm	70 to 75
Cylinder head - stage 3	Nm	Wait 5 min.
- stage 4	Nm	+ 90°
Big-end bearings	Nm	26 to 33
Main bearings	Nm	90 to 104
Clutch cover	Nm	17 to 21
Flywheel [driveplate]	Nm	68 to 74
Front hubs	Nm	390 to 450
Rear hubs	Nm	250 to 290
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	30 to 40

Capacities

Granada, Scorpio 2.4 & CAT

1987 to 1993

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	1.25. MT75: 1.2
Automatic transmission - refill	litres	8.7
Final drive	litres	1.3
Cooling system	litres	8.5
Fuel tank	litres	70

Notes and Illustrations

¹CAT: ARD 92kW US83

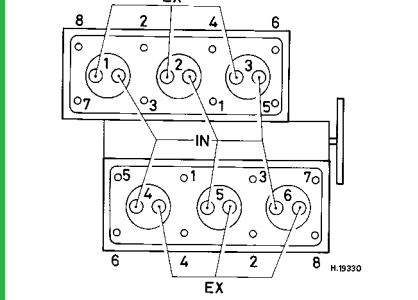
²6.88 ▶: 875±50 [AT 12.87 ▶: 900±50]

³95 [U]: 8° BTDC @ _900

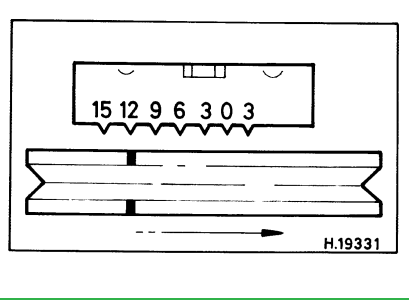
⁴Self-levelling: +1°58'±1°

1: Idle speed

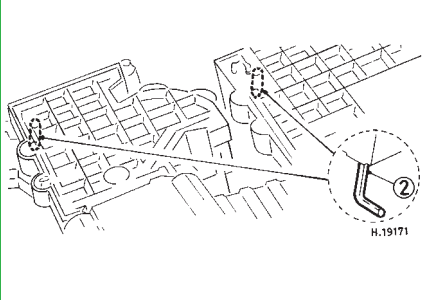
2: CO / Mixture



2394 cm³



2394 cm³



L-Jetronic, 2394 cm³